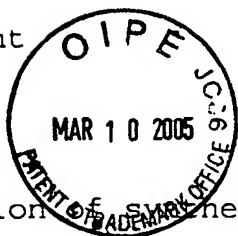


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2-Stage conversion of synthesis gas to olefin(s) and aromatics - useful in

gasoline, via intermediate prodn. of mixed higher alcohol(s)

Patent Assignee: IMPERIAL CHEM IND LTD

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ek

Type

DE 3113838 A 19820107 198202B

JP 56159286 A 19811208 198203

ZA 8102157 A 19820308 198221

CA 1155463 A 19831018 198346

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DE 3113838 A 17

Abstract:

DE 3113838 A

Prepn. of unsatd. and/or aromatic hydrocarbons comprises: (a) prepn. a
nd

purificn. of synthesis gas (CO+H₂ etc.) via steam reforming or partial
oxidn.;

(b) conversion of synthesis gas to alcohols higher than methanol; and

(c)

conversion of part or all of the prod. from (b) to unsaturates and aro
matics.

The catalyst for (b) contains (i) oxides of Cr and Zn; (ii) the oxide
of at

least one other metal, M, pref. Mn, whose divalent oxide is difficult
to reduce

to metal and is more basic than ZnO; and (iii) an alkali metal cpd. Th
e catalyst

for (c) is an oxide-contg. ion exchanger, with lattice openings permit
ting entry

of mols. of 5-7 A.U. dia.; pref., it is a zeolite of the ZSM 5 family.

Used for mfr. of chemical intermediates and gasoline components from n
atural

gas, coal, heavy oil, etc.. The octane number of the prod. from (c) ap
peared

higher than when methanol was fed.

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